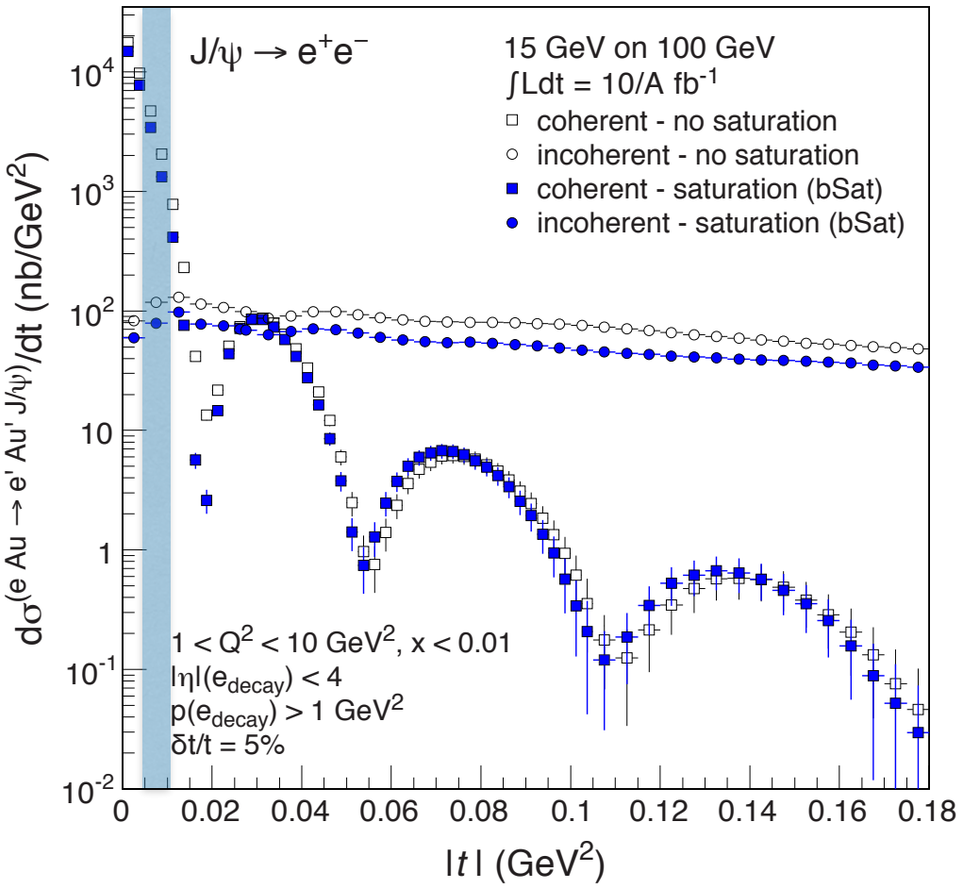
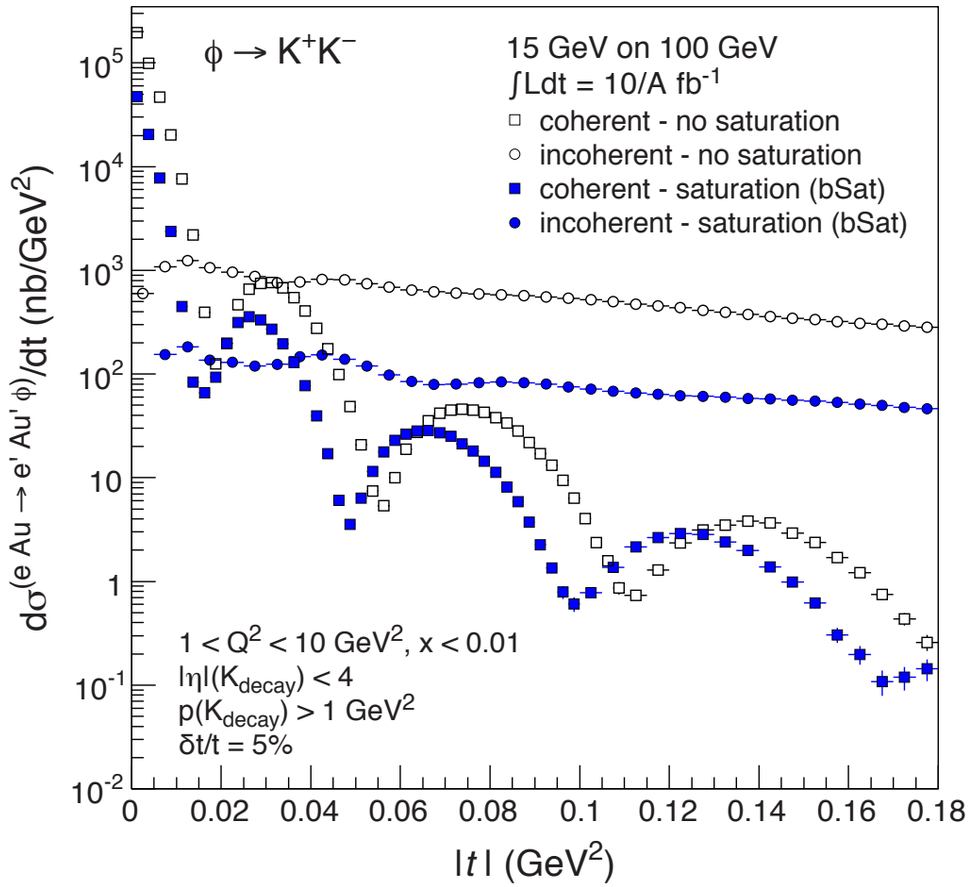
t-slope
as function of Q^2?
A suggestion by EIC IAC

TU, April 3, 2014

Recall New dσ/dt



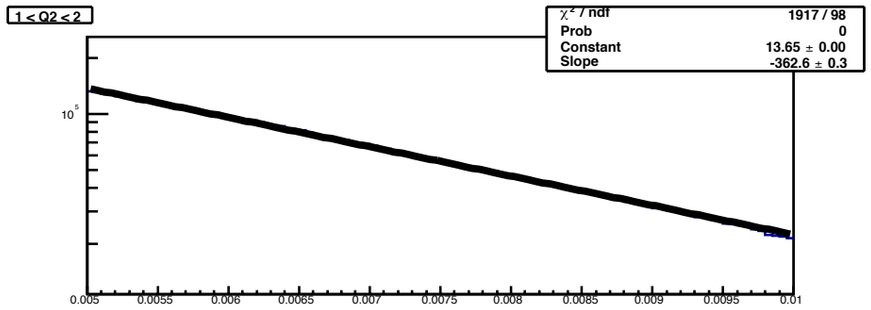


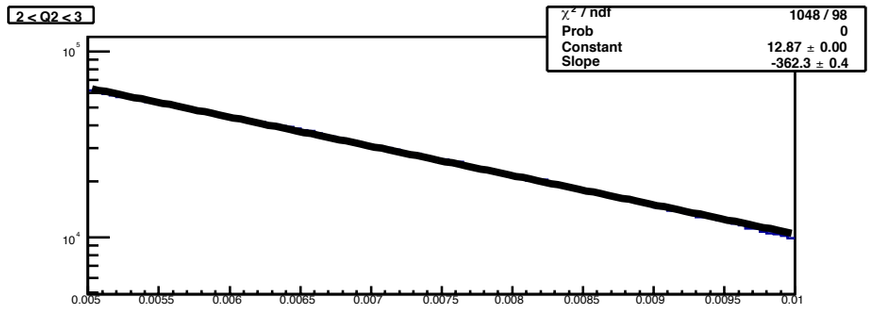
N.B. The structure in incoherent is real (i.e., in Dipole Model)

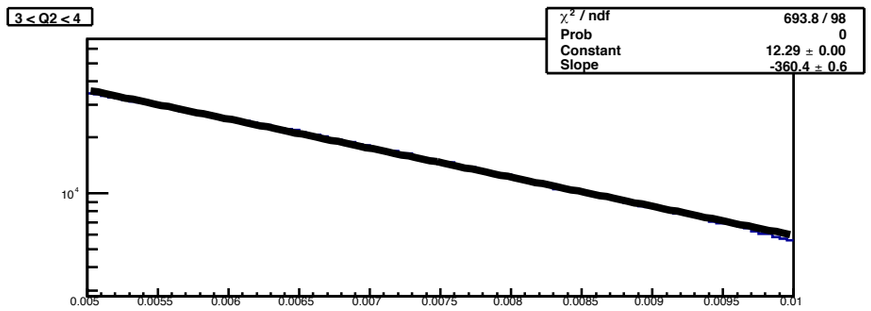
- $|t| < 0.015$ GeV^2: Not an exponential, no "B" comparable to ep
- Use finite range $0.005 < |t| < 0.01$ GeV^2 to check for Q2 dependence
  - slope not very meaningful since B = B(t)

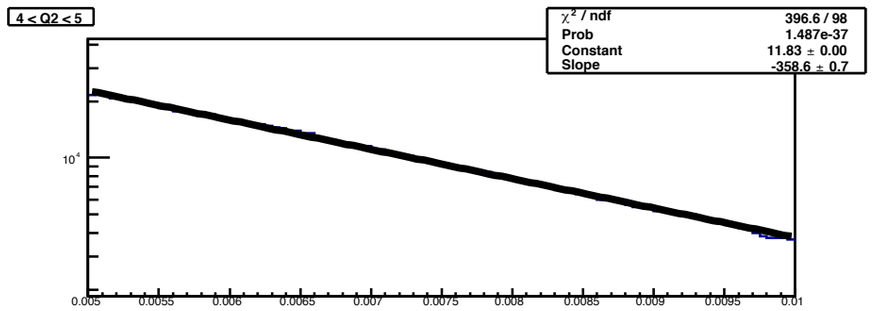
Sartre 1.1
100M events
9 Q^2 bins
from 1 to 10 GeV2

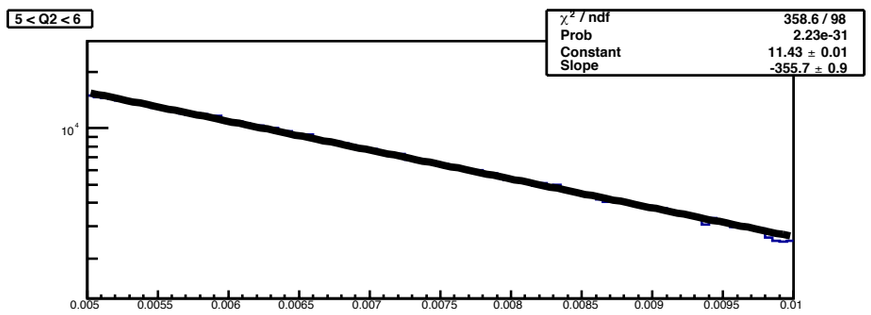
Here:
J/ψ, sat

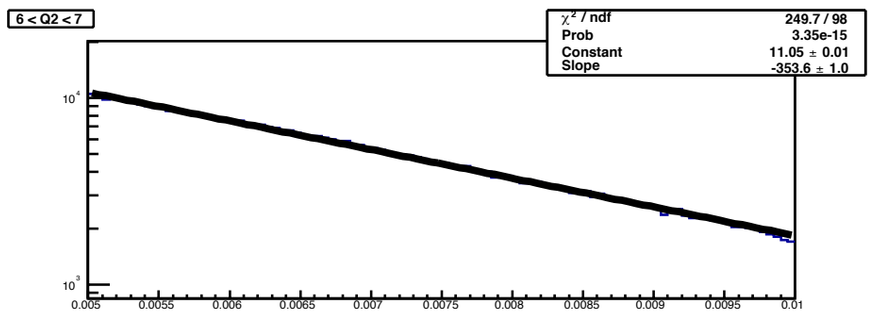


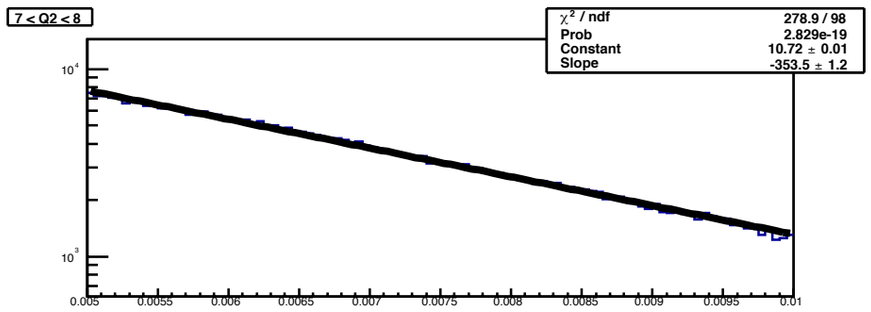


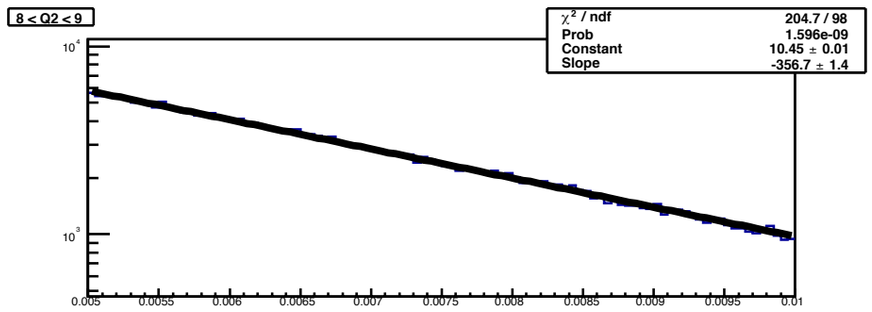


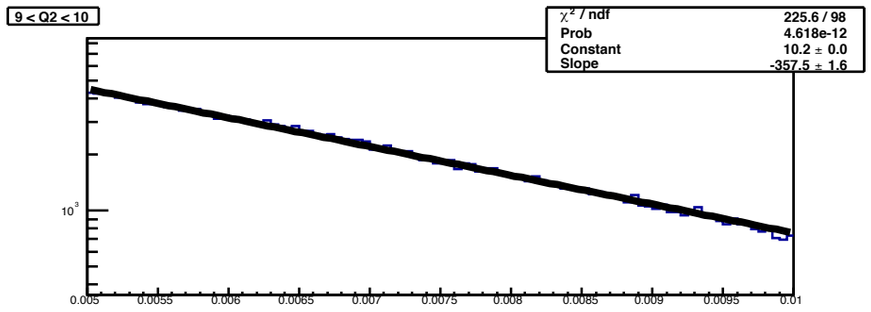






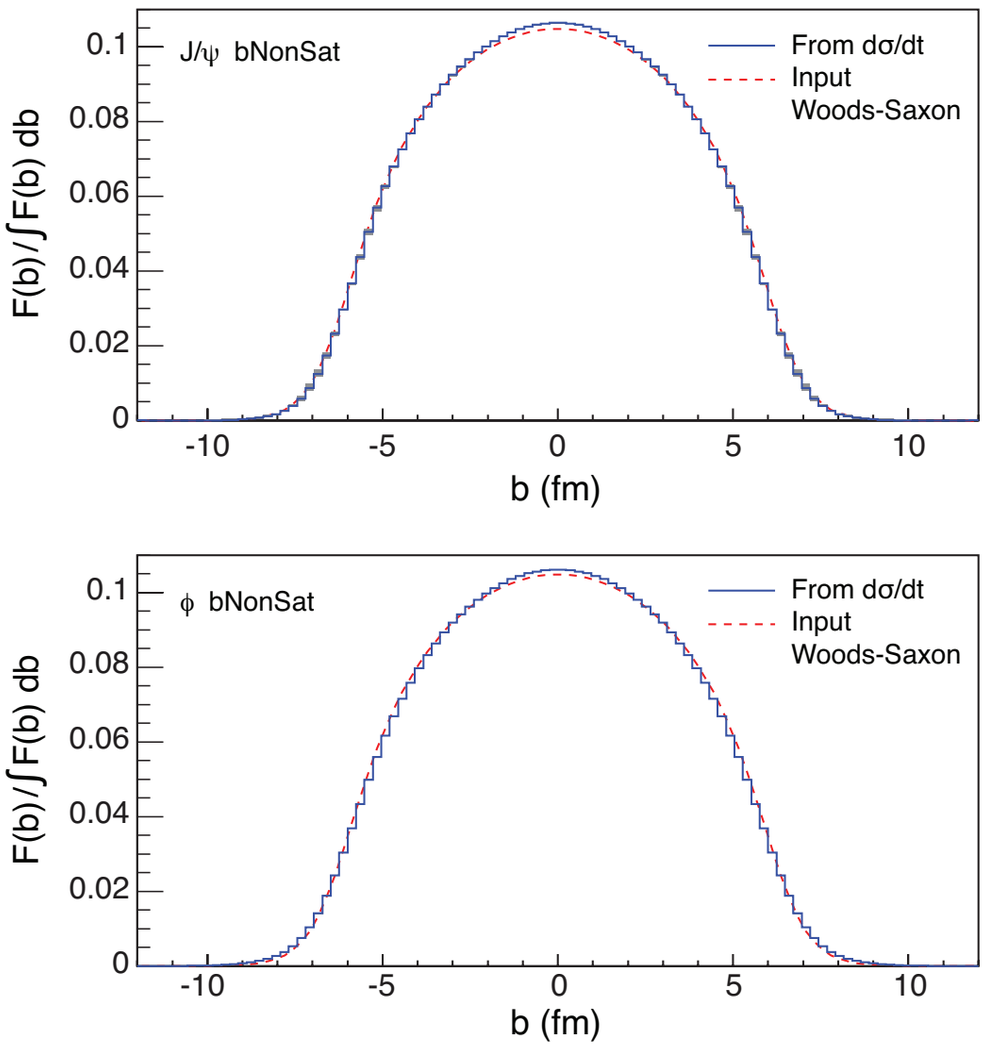


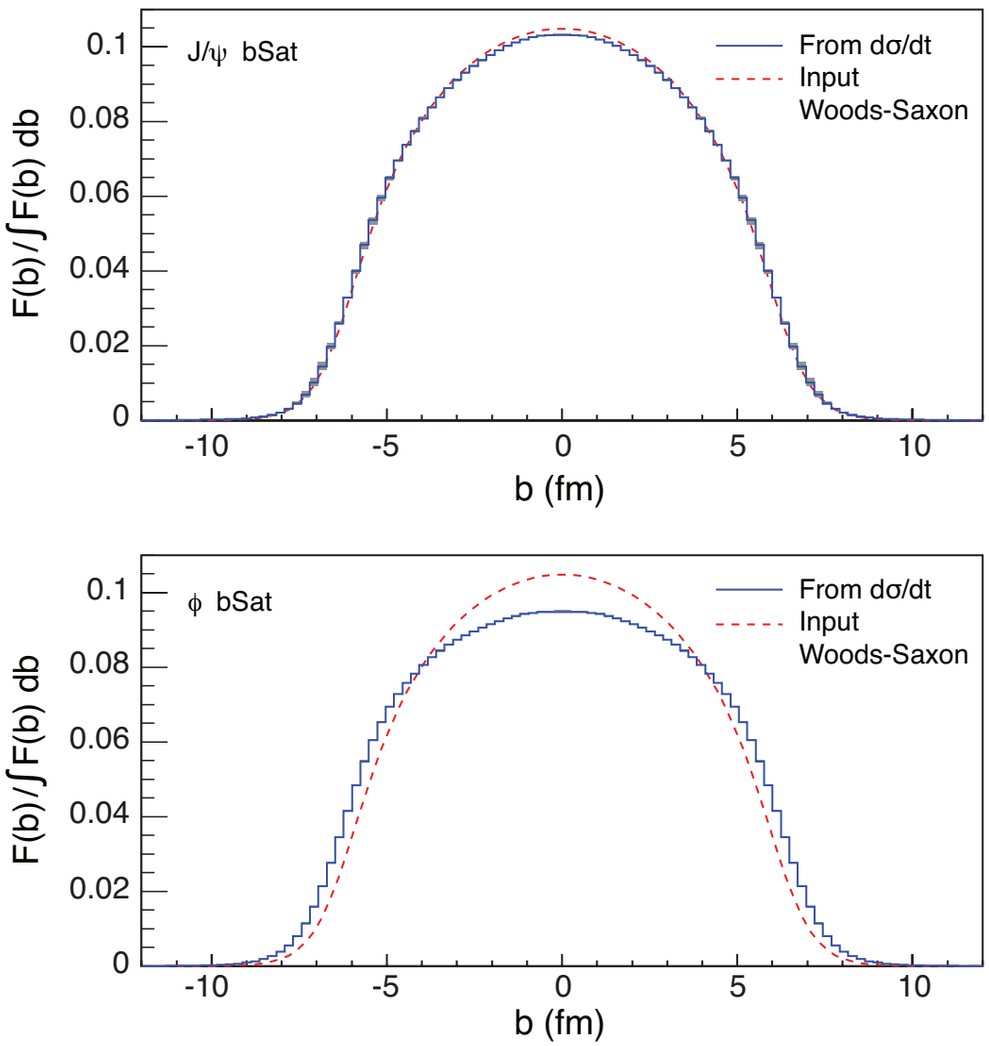




Expectations

- $F(b_T)$ more powerful than simple slope, all info is here



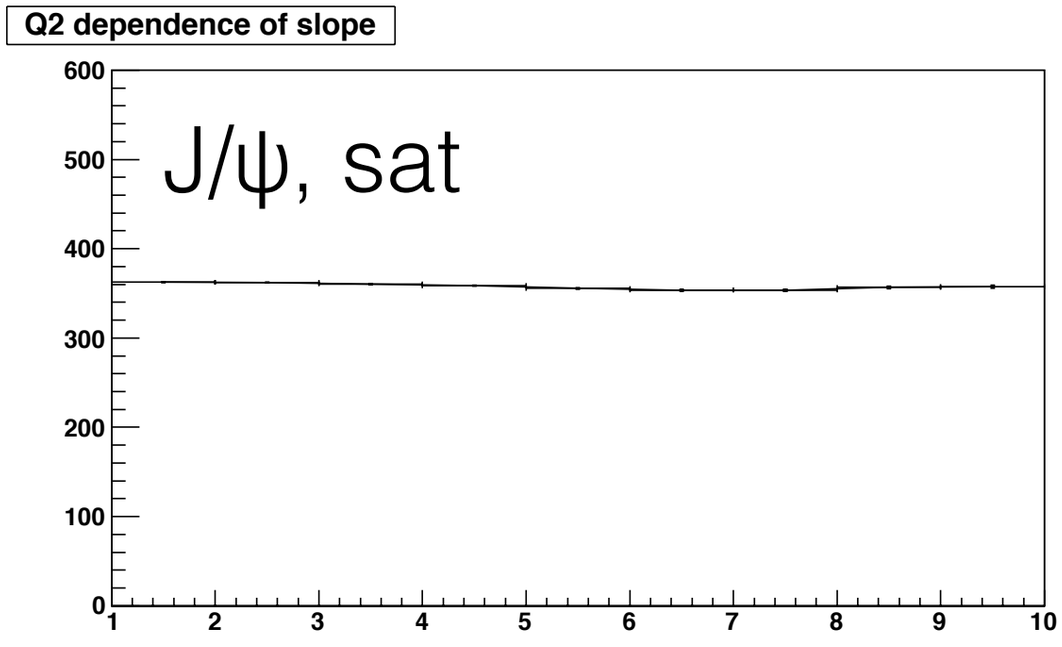


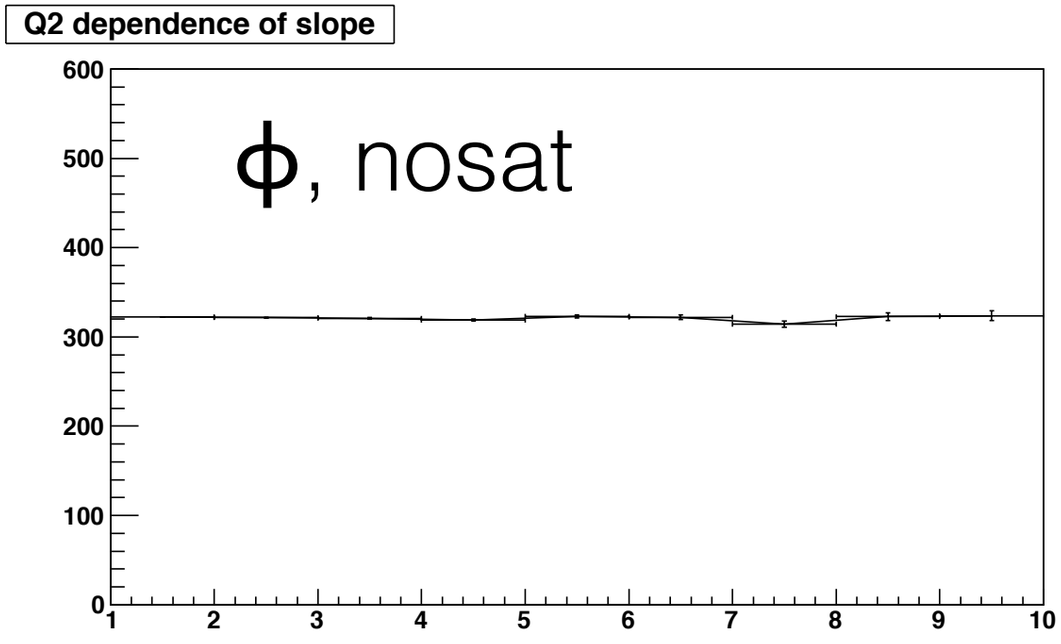
- If there's an effect than in ϕ

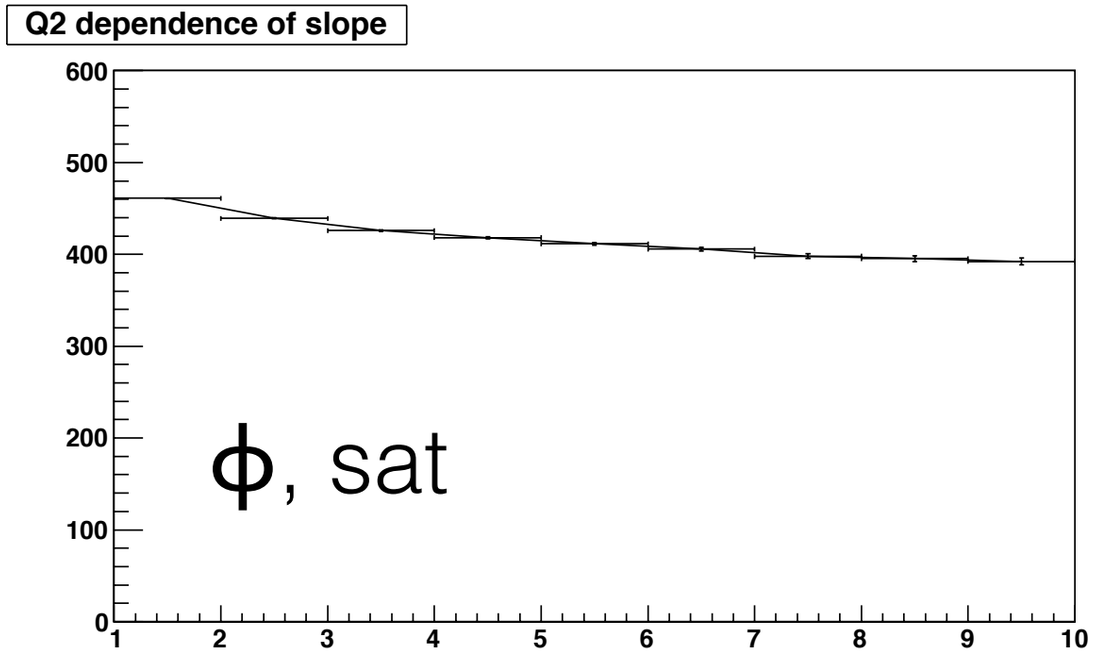
Note: there's no explicit Q^2 dependence in source shape put into Sartre

Next: explore region

$0.1 < Q^2 < 1\ GeV^2$







broadens as sat kicks in